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Relevance scale **181 A multimedia client to the IBM LAN server**

 Mark Baugher, Steven French, Alan Stephens, Isabel Van Horn

September 1993 **Proceedings of the first ACM international conference on Multimedia MULTIMEDIA '93**

Publisher: ACM Press

Full text available:  pdf(171.28 KB)

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182 MPEGTool: an X window based MPEG encoder and statistics tool

 Toshiyuki Urabe, Hassan Afzal, Grace Ho, Pramod Pancha, Magda El Zarki

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Publisher: ACM Press

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183 Random early detection gateways for congestion avoidance

Sally Floyd, Van Jacobson

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184 A histogram-based model for video traffic behavior in an ATM multiplexer

Paul Skelly, Mischa Schwartz, Sudhir Dixit

August 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 4

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185

Effective bandwidth of general Markovian traffic sources and admission control of

high speed networks

Anwar I. Elwalid, Debasis Mitra

June 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 3**Publisher:** IEEE PressFull text available:  pdf(1.82 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**186 A credit manager for traffic regulation in high-speed networks: a queueing analysis**

Kin K. Leung, Raymond W. Yeung, Bhaskar Sengupta

April 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 2**Publisher:** IEEE PressFull text available:  pdf(962.33 KB) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)**187 Application of fast simulation techniques to systems with correlated noise** Michael R. FraterDecember 1992 **Proceedings of the 24th conference on Winter simulation WSC '92****Publisher:** ACM PressFull text available:  pdf(450.75 KB) Additional Information: [full citation](#), [references](#), [index terms](#)**188 A parallel simulator for performance modelling of broadband telecommunication** networks

Richard W. Earnshaw, Alan Hind

December 1992 **Proceedings of the 24th conference on Winter simulation WSC '92****Publisher:** ACM PressFull text available:  pdf(928.21 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**189 A bibliography on performance issues ATM networks** I. Niklaidis, Raif O. OnvuralOctober 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5**Publisher:** ACM PressFull text available:  pdf(1.37 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The Asynchronous Transfer Mode (ATM) is the transport mode of choice for B-ISDN. In order for high speed networks to become a reality, a number of performance issues has to be resolved. In recent years, there has been a growing interest in the literature in developing performance models to explore a wide range of performance problems varying from understanding the performance of a switch architecture to implementing efficient congestion control mechanisms and light weight transport protocols. In ...

**190 Report on the Workshop on Quality of Service Issues in High Speed Networks** S. KeshavOctober 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5**Publisher:** ACM PressFull text available:  pdf(1.28 MB) Additional Information: [full citation](#), [index terms](#)**191 Performance evaluation of Forward Error Correction in ATM networks**

Ernst W. Biersack

October 1992 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Communications architectures & protocols SIGCOMM '92**, Volume 22 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.04 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

If the packet loss rate in a network is higher than the loss rate requested by an application, the transport protocol must make up for the difference in loss rate. In high bandwidth delay-product networks the latency introduced by retransmission-based error recovery schemes may be too high for applications with latency constraints. In this case, Forward Error Correction (FEC) can be used. FEC allows recovery from loss without retransmission. The amount of loss recovered str ...

192 Bibliography of recent publications on computer communication

July 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 3

Publisher: ACM Press

Full text available:  pdf(603.05 KB)

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193 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1992 **ACM SIGSOFT Software Engineering Notes**, Volume 17 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.65 MB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

194 A simulation study of forward error correction in ATM networks

Ernst W. Biersack

January 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 1

Publisher: ACM Press

Full text available:  pdf(665.66 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

If the packet loss rate in a network is higher than the loss rate requested by an application, the transport protocol must make up for the difference in loss rate. In high bandwidth delay-product networks the latency introduced by retransmission-based error recovery schemes may be too high for applications with latency constraints. In this case, Forward Error Correction (FEC) can be used. FEC allows recovery from loss without retransmission. The amount of loss recovered strongly depends o ...

195 VirtualClock: a new traffic control algorithm for packet-switched networks

Lixia Zhang

May 1991 **ACM Transactions on Computer Systems (TOCS)**, Volume 9 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.76 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

One of the challenging research issues in building high-speed packet-switched networks is how to control the transmission rate of statistical data flows. This paper describes a new traffic control algorithm, VirtualClock, for high-speed network applications. VirtualClock monitors the average transmission rate of statistical data flows and provides every flow with guaranteed throughput and low queueing delay. It provides firewall protection among individual flows, as in a TD ...

Keywords: data traffic control, performance guarantee, rate-based flow-control algorithms, statistical multiplexing, time-division-multiplexing

196 Reliable broadband communication using a burst erasure correcting code

 A. J. McAuley

August 1990 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM symposium on Communications architectures & protocols SIGCOMM '90**, Volume 20 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Traditionally, a transport protocol corrects errors in a computer communication network using a simple ARQ protocol. With the arrival of broadband networks, forward error correction is desirable as a complement to ARQ. This paper describes a simplified Reed-Solomon erasure correction coder architecture, adapted for congestion loss in a broadband network. Simulations predict it can both encode and decode at rates up to 1 gigabit per second in a custom 1 micron CMOS VLSI chip.

197 Virtual clock: a new traffic control algorithm for packet switching networks

 L. Zhang

August 1990 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM symposium on Communications architectures & protocols SIGCOMM '90**, Volume 20 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.19 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A challenging research issue in high speed networking is how to control the transmission rate of statistical data flows. This paper describes a new algorithm, VirtualClock, for data traffic control in high-speed networks. VirtualClock maintains the statistical multiplexing flexibility of pocket switching while ensuring each data flow its reserved average throughput rate at the same time. The algorithm has been tested through simulation.

198 Gauss: a simple high performance switch architecture for ATM

 R. J. F. de Vries

August 1990 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM symposium on Communications architectures & protocols SIGCOMM '90**, Volume 20 Issue 4

Publisher: ACM Press

Full text available:  pdf(937.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Broadband ISDN will use the Asynchronous Transfer Mode (ATM) as its basic switching, multiplexing and transmission technique. ATM is very flexible and promising, nevertheless, it requires high-performance switching hardware. The ATM Switching Element (ASE) proposed in this paper, called the Gauss ASE, can meet ATM requirements. Using traffic observations and a number of well known design principles the Gauss ASE gets a number of favorable properties, for example the Gauss ASE is nonblocking ...

199 The next generation of internetworking

 Gurudatta M. Parulkar

December 1989 **ACM SIGCOMM Computer Communication Review**, Volume 20 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.86 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper describes a research effort concerned with the design of the next generation of internet architecture, which has been necessitated by two emerging trends. First, there will be at least a few orders of magnitude increase in data rates of communication networks in the next few years. For example, researchers are already prototyping networks with data rates of up to a few hundred Mbps, and are planning networks with data rates up to a few Gbps. Second, researchers from all disciplines of ...

200 Risks to the public

 P. G. Neumann

October 1987 **ACM SIGSOFT Software Engineering Notes**, Volume 12 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.60 MB\)](#) Additional Information: [full citation](#), [index terms](#)



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